


EXHIBIT C

Write in Dark Ink on Front Side Only, please

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|---|-----------------------------|-------------------------|-----------------------------------|
|  | INVENTION DISCLOSURE | PAGE ONE OF <u>4</u> | |
| PDNO <u>0011675</u> | DATE RCVD _____ | IPD ATTORNEY <u>EAA</u> | |
| Instructions: The information contained in this document is COMPANY CONFIDENTIAL and may not be disclosed to others without prior authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is authorized, prepared, and submitted to the Government. | | | |
| Descriptive Title of Invention: <u>Ink Jet Emissions/Vapour Condenser Using a Fluid Heat Exchanger</u> | | | |
| Name of Project: <u>FALCON</u> | | | |
| Product Name or Number: <u>Scanning/Page Wide Array</u> | | | |
| Was a description of the invention published, or are you planning to publish? If so, the date(s) and publication(s): | | | |
| Was a product including the invention announced, offered for sale, sold, or is such activity proposed? If so, the date(s) and location(s): | | | |
| Was the invention disclosed to anyone outside of HP, or will such disclosure occur? If so, the date(s) and name(s): | | | |
| <i>If any of the above situations will occur within 3 months, call your IP attorney or the Legal Department now at 1-800-4919 or 970-898-4919.</i> | | | |
| Was the invention described in a lab book or other record? If so, please identify (lab book #, etc.) | | | |
| Was the invention built or tested? If so, the date: | | | |
| Was this invention made under a government contract? If so, the agency and contract number: | | | |
| Description of Invention: Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es). | | | |
| A. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.) B. Advantages of the invention over what has been done before. C. Problems solved by the invention. D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.). | | | |
| Signature of Inventor(s): Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: [_____]. | | | |
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(If more than four inventors, include additional information on another copy of this form and attach to this document)

Form 3.1 idf.doc, rev

BEST AVAILABLE COPY

Mike Riou

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*My friend
Mike Riou
Mike Riou***A: Description of Invention**

New high throughput writing systems will require heaters to drive off moisture from the paper. This is required to achieve handleability and stacking goals for the output. Once the paper and ink is heated, the high humidity air must be collected, processed and exhausted to the atmosphere. The humid air is a mixture of water from the ink, paper, solvents from the ink, and ink aerosol. This invention uses a fluidic heat exchanger to create a cold surface that will condense the water and solvent when they come in contact with it. Water or another refrigerant is used to cool the finned heat exchanger. Air from the printer is driven through the cold fins, and condensation of the water and solvents occurs.

(See attached diagram for a schematic of system.)

B: Advantages of Invention:

- 1) Higher efficiencies can be obtained with this system.
- 2) High heat loads can be transferred with a water/refridgerant system.

C: Problems Solved by the Invention:

- 1) A cold surface is created to allow water and solvents to condense out.

D: Prior Solutions and their Disadvantages:

The only solution I know of is an aerosol fan to remove air from the interior of the printer. We have never cooled or condensed vapour.

Witnesses:*Ward A. Powell
John Barry*

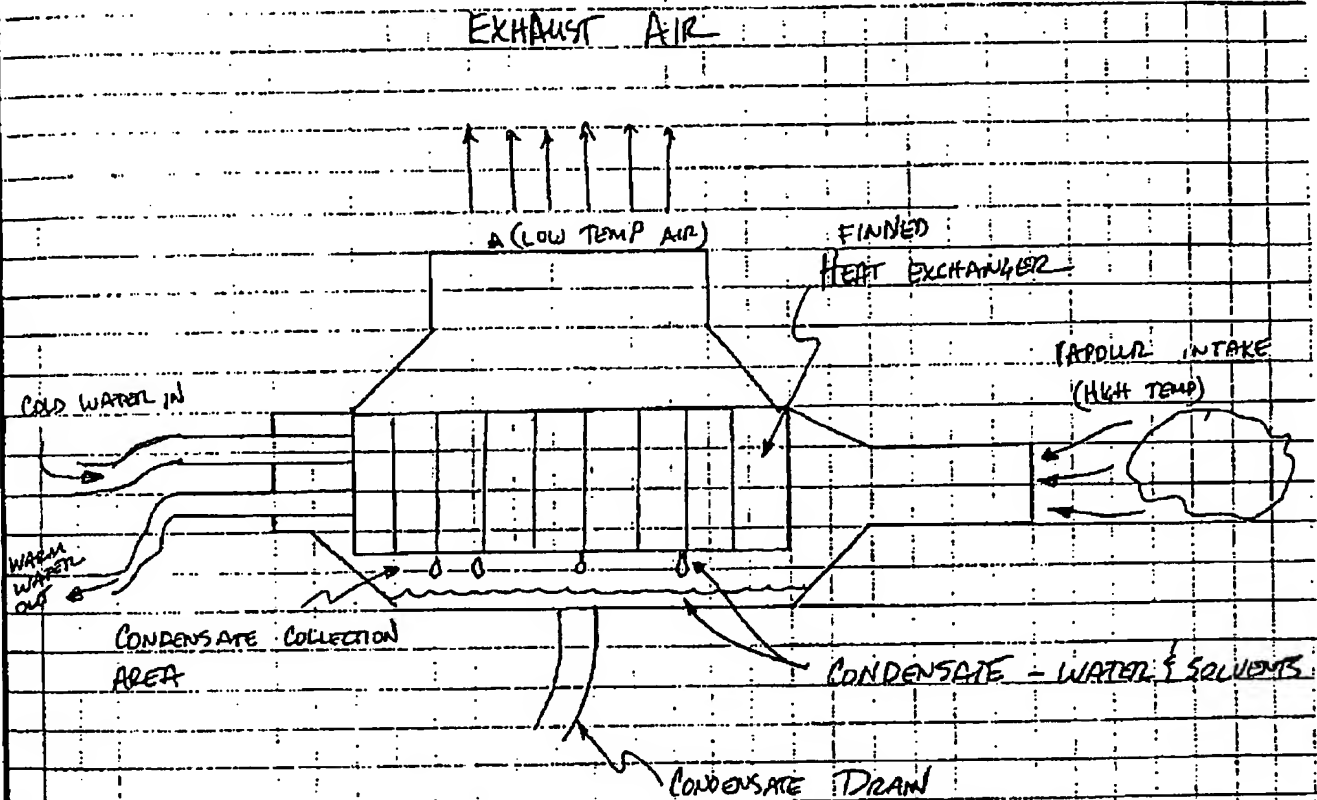
TITLE HEAT EXCHANGER GAS CONDENSER SYSTEM

Project No. _____

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Book No. _____

From Page No. _____

refuse
Shirley Lee

Witnesses:

Wanda A. Powell
John Bump

To Page No. _____

Witnessed & Understood by me,

Date

Invented by

refuse

Date

Reported by